MAN BATE SANCELLED

JAN 0 5 2004

PTO/SB/08 (2-92) Sheet 1 of 4

INFORMATION DISCLOSURE CITATION

IN AN APPLICATION
(Use several sheets if necessary)

Docker 3 amber 252312005704

Application Number 09/752,533

Cu-b-

Stephen M. COUTTS et al.

Filing Date December 29, 2000

Group Art Unit 1653

Mailing Date January 5, 2004

### **U.S. PATENT DOCUMENTS**

Examiner (Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
Y)	1.	07/12/2001	2001/0007765	Harris et al.	435	788	
	2.	06/27/2002	2002/0082400	Coutts et al.	536	23.1	
	3.	01/23/2003	2003/0018190	Jones	544	215	
	4.	08/28/2003	2003/0162953	Coutts et al.	536	23.1	
	5.	01/13/1981	4,245,110	Engelhard et al.	560	160	
	6.	01/22/1991	4,987,130	Tsushima et al.	514	210,01	
	7.	12/28/1993	5,274,123	Deruelle et al.	549	34	
	8.	09/02/1997	5,663,395	Göbel et al.	556	427	
$\bigvee$	9.	09/30/1997	5,672,662	Harris et al.	525	408	
XX	10.	10/07/1997	5,674,911	Emanuele et al.	514	723	
ſ	11.	11/25/1997	5,691,387	Emanuele et al.	514	723	
	12.	12/16/1997	5,698,664	Allcock et al.	528	399	
	13.	12/01/1998	5,844,056	Kennedy et al.	526	348.7	
	14.	08/03/1999	5,932,462	Harris et al.	435	188	,
$\bigcirc$	15.	11/23/1999	5,990,237	Bentley et al.	525	54,2	
$\mathcal{X}_{\mathcal{K}}$	16.	04/09/2002	6,368,612	Lanza et al.	424	422	

#### FOREIGN PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Transl YES	ation NO
	17.	10/09/1975	DE 24 12 217	Germany			Abstract	
NX.	18.	08/17/1988	EP 0 278 621	Europe				
75.4	19	04/02/1998	PT 96503	Portugal			Abstract	
	20.	01/10/1991	WO 91/00293	WIPO				
7	21.	01/23/1992	<del>WO 92/0097</del> 5	WIPO			Abstract	
20	22.	04/16/1992	WO 92/05897	WIPO		_		
200	23.	12/21/1995	WO 95/34326	WIPO				

**EXAMINER:** 

DATE CONSIDERED:

6-1-04

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

PTO/SB/ 08 (2-92)

Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

PTO/SB/08 (2-92) Sheet 2 of 4

Docket Number Form PTO-1 INFORMATI **OSURE CITATION** 

> IN AN APPLICATION (Use several sheets if necessary)

2312005704

Application Number 09/752,533

Stephen M. COUTTS et al.

Filing Date December 29, 2000

Group Art Unit 1653

Mailing Date January 5, 2004

$\bigcirc$							
	24.	07/18/1996	WO 96/21469	WIPO			
1	25.	06/17/1999	WO 99/29336	WIPO			
	26.	06/17/1999	WO 99/29338	WIPO			
	27.	07/15/1999	WO 99/34833	WIPO			
	28.	09/23/1999	WO 99/47494	WIPO		 Abstract	
	29.	06/15/2000	WO 00/33887	WIPO	·		
V	30.	06/15/2000	WO 00/34231	WIPO			
XX	31.	06/15/2000	WO 00/34296	WIPO			

#### OTHER DOCUMENTS

(including author, title, Date, Pertinent Pages, Etc.)

Examiner Initials	Ref. No.	Title
XX	32.	Ashton, P. R. et al. (1996). "Amino Acid Derivatives of β-Cyclodextrin," J. Org. Chem. 61: 903-908.
	33.	Bordunov, A. V. et al. (1995). "Synthesis of New Pyridinoazacrown Ethers Containing Aromatic and Heteroaromatic Proton Ionizable Substituents," J. Org. Chem. 60: 6097-6102.
	34.	Brask, J. and Jensen, K.J. (2001). "Carboproteins: A 4-α-Helix Bundle Protein Model Assembled on a D-Galactopyranoside Template," <i>Bioorganic &amp; Medicinal Chemistry Letters</i> 11:697-700.
	35.	Choi, J.S. et al. (1999). "Poly(ethylene glycol)-block-poly(L-lysine) Dendrimer: Novel Linear Polymer/Dendrimer Block Copolymer Forming a Spherical Water-Soluble Polyionic Complex with DNA," <i>Bioconjug. Chem.</i> 10(1): 62-65.
	36.	Choi, J.S. et al. (2000). "Synthesis of a Barbell-like Triblock Copolymer, Poly(L-lysine) Dendrimer-block-Poly(ethylene glycol)-block-Poly(L-lysine) Dendrimer, and Its Self-Assembly with Plasmid DNA," J. Am. Chem. Soc. 122(3): 474-480.
	37.	Clark, A.J. et al. (2001). "A Nonisocyanate Route to Monodisperse Branched Polyurethanes," J. Org. Chem. 66:8687-8689.
	38.	Conrad, M.J. and Coutts, S. (1991). "Conjugates of Stable Polymer and Polynucleotide - Tolerogens for Human Systemic Lupus Erythematosus," Derwents Database record for European Patent No. EP 0 438 259, July 1991.
	39.	Contreras, M. A. et al. (1983). "Iodine Monochloride (ICI) Iodination Techniques" Chapter 22 In Methods in Enzymology Academic Press, Inc.: New York, New York 92:277-292.
V	40.	Duncan, R. (1985). "Biological Effects of Soluble Synthetic Polymers as Drug Carriers," CRC Critical Reviews in Therapeutic Drug Carrier Systems. 1(4): 281-310.
XX	41.	Duncan, R. and Spreafico, F. (1994). "Polymer Conjugates: Pharmacokinetic Considerations for Design and Development," Clin. Pharmacokinetic 27(4):290-306.

**EXAMINER:** 

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

MANDATE GANCELLED

JAN 0 5 20RY S

PTO/SB/08 (2-92) Sheet 3 of 4

## Form PTO-1449 INFORMATION DISCLOSURE CITATION

IN AN APPLICATION

(Use several sheets if necessary)

Docket Number 23 2005704
Applicant

Application Number 09/752,533

Stephen M. COUTTS et al.

Stephen W. COOT 13 Ct a

Filing Date December 29, 2000

Group Art Unit 1653

Mailing Date January 5, 2004

X	42	Eisenbach, C. D. and Heinemann, T. (1995). "Synthesis and Characterization of Thermoplastic Graft Copolymer Elastomers with a Polyether Main Chain and Uniform Urethane-Based Side Chains," <i>Macromolecules</i> 28(7):2133-2139.		
	43.	Eisenbach, C. D. and Heinemann, T. (1995). "Thermoplastic Graft Copolymer Elastomers with Chain-Folding or Bifurcated Side Chains," <i>Macromol. Chem. Phys.</i> 196(8):2669-2686.		
	44.	Fischer, M. and Vögtle, F. (1999). "Dendrimers: From Design to Application - A Progress Report," <i>Angew. Chem. Int. Ed.</i> 38:884-905.		
	45.	Gadelle, A. and Defaye, J. (1991). "Selective Halogenation at Primary Positions of Cyclomaltooligosaccharides and a Synthesis of Per-3,6-anhydro Cyclomaltooligosaccharides," <i>Angew. Chem. Int. Ed. Engl.</i> 30:78-80.		
	46.	Gennaro, A. R., ed. (1995). <u>Remington: The Science and Practice of Pharmacy</u> , 19th Edition. Mack Publishing Co., Easton: Pennsylvania, Vol. I, pp. xv-xvi (Table of Contents Only.)		
	47.	Gitsov, I. et al. (1992). "Novel Polyether Copolymers Consisting of Linear and Dendritic Blocks," Angew. Chem. Int. Ed. Engl. 31(9): 1200-1202.		
	48.	Huang, S-Y. et al. (1998). "A Polyethylene Glycol Copolymer for Carrying and Releasing Multiple Copies of Cysteine-Containing Peptides," <i>Bioconjug. Chem.</i> 9(5): 612-617.		
	49.	Iverson, G. M. et al. (1998). "A Chemically Defined, Toleragen-Based Approach for Targeting Anti-β <sub>2</sub> -Glycoprotein I Antibodies," <i>Lupus</i> 7(Supp. 2):S166-S169.		
	50.	Iverson, G. M. et al. (1998). "Anti-β2 Glycoprotein I (β2GPI) Autoantibodies Recognize an Epitope on the First Domain of β2GPI," <i>Proc. Nat. Acad. Sci.</i> 95:15542-15546.		
	51.	Kono, K. et al. (1999). "Design of Dendritic Macromolecules Containing Folate or Methotrexate Residues," <i>Bioconjug. Chem.</i> 10(6): 1115-1121.		
	52.	Lee, L. S. et al. (1999). "Prolonged Circulating Lives of Single-Chain Fv Proteins Conjugated with Polyethylene Glycol: A Comparison of Conjugation Chemistries and Compounds," <i>Bioconjug Chem</i> 10(6): 973-981.		
	53.	Lu, C. X. et al. (1988). "Nucleic Acid Base Grafted Imino Polyurethane," J. Polymer Sci./ Part A: Polymer Chem. 26(6):1659-1669.		
	54.	Mitchell, J. P.et al. (1999). "A Direct Method for the Formation of Peptide and Carbohydrate Dendrimers," Bioorganic & Medicinal Chemistry Letters 9:2785-2788.		
	55.	Pechar, M. et al. (2000). "Poly(ethylene glycol) Multiblock Copolymer as a Carrier of Anti-Cancer Drug Doxorubicin," <i>Bioconjug. Chem.</i> 11(2):131-139.		
	56.	Savva, M. et al. (1999). "A Genetically Modified Recombinant Tumor Necrosis Factor-α Conjugated to the Distal Terminals of Liposomal Surface Grafted Polyethyleneglycol Chains," <i>Int. J. Pharm.</i> 184: 45-51.		
22	57.	Talarico, T. L. et al. (2000). "Chemical Characterization of Pyridoxalated Hemoglobin Rolyoxyethylene Conjugate," Biochim. Biophys. Acta 1476: 53-65.		
EXAMIN	ER:	DATE CONSIDERED: 6-1-04		

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in

conformance and not considered. Include a copy of this form with next communication to applicant.

PTO/SB/ 08 (2-92)

Patent and Trademark Off

pa-841302

Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

MAIL DATE CONCELLED

JAN 0 5 2004

PTO/SB/08 (2-92) Sheet 4 of 4

# INFORMATION DISCLOSURE CITATION IN AN APPLICATION

(Use several sheets if necessary)

Docket Number 2523 1200570 Applies on Number 09/752,533

Applicant

Stephen M. COUTTS et al.

Filing Date December 29, 2000

Group Art Unit 1653

Mailing Date January 5, 2004

	58.	Taylor, R.T. and Puapaiboon, U. (1998). "Polyurethane Dendrimers via Curtius Reaction," Tetrahedron Lett. 39:8005-8008.
	59.	Vercruysse, K.P. et al. (1997). "Synthesis and in Vitro Degradation of New Polyvalent Hydrazide Cross-Linked Hydrogels of Hyaluronic Acid," <i>Bioconjugate Chem.</i> 8:686-694.
XX.	60.	Veronese, F.M. and Morpurgo, M. (1999). "Bioconjugation in Pharmaceutical Chemistry," Il Farmaco 54: 497-516.
A	61.	Webb, M.S. et al. (1998). "Comparison of Different Hydrophobic Anchors Conjugated to Poly(ethylene glycol): Effects on the Pharmacokinetics of Liposomal Vincristine," <i>Biochim. Biophys. Acta</i> 1372: 272-282.

**EXAMINER:** 

DATE CONSIDERED:

6/1/04

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.